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(54) ORTHOGONAL FREQUENCY DIVISION MULTIPLEX SIGNAL TRANSMISSION METHOD, TRANSMITTER AND RECEIVER

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an orthogonal frequency division multiplex signal transmission method by which much more information signals are sent accordingly even when a reception state is change and to provide a transmitter and a receiver.

SOLUTION: An input circuit 31 selects any of a plurality of error correction coding circuits and a plurality of trellis coding circuits for input data to apply double error correction, conducts modulation mapping, synthesizes frames of ID and reference signals denoting a selected rate and provides outputs of R and I signals. An output circuit 35 uses the ID signal decoded from the frame based on the received demodulated R and I signals, conducts demodulation due-mapping, Viterbi decoding and error correction to provide an output of decoded data and also discriminates the reception status based on the S/N of the

decoded reference signal and generates a control signal that designates a rate of the transmitter side by which much more data amounts are set depending on the reception status and transmits the control signal.

